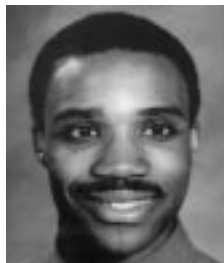


**Javit A. Drake,
IE&EE Division
Student Achievement Award Winner**



Javit A. Drake has had an education marked by academic excellence and well-roundedness. He attended the Massachusetts Institute of Technology from 1990 to 1994 supported in part by a Dow Chemical Premier Scholarship. Mr. Drake's formal education was enriched by summer positions in the U.S. at the Dow Chemical Company as well as overseas.

Undergraduate accomplishments earned him a National Science Foundation Fellowship to pursue graduate studies. After completing a B.S. in chemical engineering with a minor in music in 1994, he entered the Ph.D. program at the University of California at Berkeley.

Mr. Drake's present project under Professor John Newman began in the spring of 1996. The work involves the mathematical modeling and computer simulation of an electrochemical reactor. The modeling of this multiphase reactor, currently used to produce fluorinated hydrocarbons, marks an original contribution to industrial electrolysis. Results showing the various flow patterns in the gas-liquid system and the effect on current distributions were presented at the 1997 Spring Meeting of the Electrochemical Society. Publication is anticipated in the May issue of the *Journal*.

The Student Achievement Award of the Industrial Electrolysis and Electrochemical Engineering Division was established in 1989 to recognize promising young engineers and scientists in the field of electrochemical engineering and to encourage the recipients to initiate careers in this field. It is presented at the Spring Meeting. The awardee receives a scroll and \$1,000. There is an annual call for nominations in June and the nomination deadline is September 15.

**Philip Soo Wins
H. H. Dow Memorial
Student Achievement Award**



Philip Soo earned a B.S. in materials engineering at Cornell University in 1994. While an undergraduate, he studied fundamental properties of graphite cathodes in secondary lithium ion batteries at Eveready Battery Company and later palladium cathodes for thin-film hydrogen batteries at Brookhaven National Laboratory. These experiences

inspired him to continue his education at the Massachusetts Institute of Technology, where he is currently a doctoral candidate in the Department of Materials Science and Engineering. Working with Prof. Anne Mayes and Prof. Donald Sadoway, he is synthesizing and studying the electrochemistry of novel block copolymer materials as electrolytes in advanced rechargeable lithium ion batteries. Recently, he has described the influences of block morphology and glass transition temperature on lithium ion mobility in a model diblock copolymer system. Mr. Soo presented this work at the 1997 spring meeting of the American Physical Society.

Mr. Soo is the president of the Graduate Materials Committee at M.I.T. and coordinates events for incoming graduate students in the department. He is also a Dean McMullin Scholar, an Alpha Sigma Mu Scholar, and a member of the Tau Beta Pi National Engineering Society.

The H.H. Dow Memorial Student Award of the Industrial Electrolysis and Electrochemical Engineering Division was established in 1990. It is presented annually at the Spring Meeting. This award consists of a scroll and \$1,000 for educational expenses. There is an annual call for nominations in June and the nomination deadline is September 15.

Awarded Memberships Available

The Society's Corrosion, Electronics, High Temperature Materials, and Industrial Electrolysis and Electrochemical Engineering Divisions are offering Awarded Student Memberships to qualified full-time students. To be eligible, students must be in their final two years of an undergraduate program or enrolled in a graduate program in science, engineering, or education (with a science or engineering degree). Postdoctoral students are not eligible. Awarded memberships are renewable for up to four years; applicants must reapply each year. Awarded memberships begin on January 1 of the calendar year following receipt of the application. Memberships

include subscriptions to both the *Journal of The Electrochemical Society* and *Interface*.

To apply for an Awarded Student Membership, use the application form on the facing page. Deadline for submission is October 15, 1998.

Student Travel Grants

Several of the Society's Divisions offer travel assistance to students presenting papers at Society Meetings. These travel grants are intended to aid students in attending the Meeting. To be eligible for a grant, applicants must be scheduled to present a paper in a symposium or session sponsored or cosponsored by the

Division to which the application is made. To apply for a travel grant, use the application form on the facing page.

Applications for the San Diego Meeting in May must be received no later than one month prior to the start of the Meeting. The following Divisions are currently offering grants:

Electrodeposition—In commemoration of Abner Brenner's pioneering contributions to the field of electrodeposition, the Division offers up to three \$750 travel grants per year to graduate students who present papers in symposia sponsored or cosponsored by the Division. In addition, the Division also offers up to two \$450 travel grants per

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Student News

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year to students making a presentation of interest to the Division in the General Society Student Poster Session.

Interested students should apply using the Student Travel Grant Application form on the facing page. A recommendation letter from the student's graduate research advisor and a copy of the student's Meeting Abstract are also required. Optional supporting documents such as article reprints, transcripts, or reports are also invited.

Electronics—The Electronics Division is offering travel grants of up to \$300 each to students presenting papers at the Society's 193rd Meeting in San Diego, May 3-8, 1998. Eligible students must be scheduled to present a paper in a symposium sponsored or cosponsored by the Electronics Division.

In addition to the Student Travel Grant Application on page 54, applicants must also submit a copy of their Meeting Abstract and a letter of recommendation from their faculty advisor.

High Temperature Materials—Travel grants of up to \$500 are offered to student

members of the Division who are presenting papers at ECS Meetings. These grants will be made on a first-come, first-served basis, with up to three awards made per Meeting. To apply for an award, complete the Student Travel Grant Application form on page 54, and include a letter from a faculty advisor attesting to the student's financial needs, and a copy of the Meeting Abstract.

Physical Electrochemistry—The Division will support the travel of students to each ECS Meeting. Eligible students must be a graduate student or upper level undergraduate and must be scheduled to present a talk at a symposium sponsored by the Physical Electrochemistry Division. The maximum amount given for travel support will be up to \$1,000 to be distributed among the awardees.

To apply for travel support, please complete the Student Travel Grant Application on page 54, return it with a letter of recommendation from a faculty advisor, and a copy of the Meeting Abstract. ■